

**Kang, Ji Yeon**

---

**From:** Miller, Robert  
**Sent:** Tuesday, February 19, 2019 11:54 AM  
**To:** Kang, Ji Yeon  
**Subject:** FW: CWHC Diagnostic Report  
**Attachments:** NY.107393.pdf

Robert A. Miller  
6(a)(2) Coordinator  
Information Technology and Resource Management Division EPA Office of Pesticide Programs Mail Code 7502P United States Environmental Protection Agency  
1200 Pennsylvania Avenue, N.W., Washington D.C.

(703) 347-8012  
miller.robert@epa.gov

-----Original Message-----

From: Kevin Hynes<no.reply@ccwhc.ca> <no.reply@cwhc-rccsf.ca>  
Sent: Wednesday, February 13, 2019 11:39 AM  
To: Miller, Robert <Miller.Robert@epa.gov>  
Subject: CWHC Diagnostic Report

Kevin Hynes has sent you the attached Diagnostic Specimen report.

View Report Online:  
[http://www.wildlifesubmissions.org/report\\_attachments.php?lang=en&report=8f2c72587779b217a77985a2cf0379fd](http://www.wildlifesubmissions.org/report_attachments.php?lang=en&report=8f2c72587779b217a77985a2cf0379fd)

Red-tailed hawks NY107393 necropsy reports

CWHC IT DEPARTMENT  
w. <http://www.cwhc-rccsf.ca>

-----  
The information transmitted is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited. If you received this in error, please contact the sender and delete the material from your system.



Department of  
Environmental  
Conservation

### Wildlife Health Unit

New York State Department of Environmental Conservation  
108 Game Farm Road, Delmar NY 12054  
Phone: 518-478-3034/3038 Fax: 518-478-3035



Cornell University

Diagnosis Date : 2019-01-29

Necropsy # :

### Incident Information

Incident Code :	NY.107393	Location :	Address : 100th Street, New York, New York, 10025
Specimens :	2 x Red-Tailed Hawk		Latitude: 40.79383 Longitude: -73.96263

### Finder/Submitter Information

Submitter :	Finder :
Constantine Goudelias	Rob Mastrianni
NYC urban park rangers	NYC urban park rangers
1234 Fifth Avenue, Room 516	Phone : 212-360-1444
New York, New York, 10029	
Phone : 212-360-2774	
Email : c.goudelias@parks.nyc.gov	

### Information Provided For Incident

Two juvenile red-tailed hawks found together on lawn near 100th street pool, between 100th and 103rd (West)

### Diagnosis and Interpretation

#### Interpretation

Both of these hawks had gross pathologies consistent with anticoagulant rodenticide poisoning, namely large areas of subcutaneous hemorrhage without indications of trauma or in excess of that expected for the extent of the trauma (talon injuries of NY107393.1) and pale musculature and organs. Several "second generation" anticoagulant rodenticide compounds were detected in the liver tissue of both birds, including: difethialone, brodifacoum, bromadiolone, and diphacinone. Difethialone was detected at 0.783 ppm and brodifacoum at 0.057 ppm in NY107393.1 and difethialone at 0.688 ppm in NY107393.2, these findings support the diagnosis of anticoagulant rodenticide poisoning in both of these red-tailed hawks. It is interesting and unusual that they were both found dead on the same lawn at the same time although it appears NY107393.1 may have been dead longer than NY107393.2.

#### Laboratory Results For Specimen Code NY.107393.1

Cross Reference #:	015714-19	Sex :	Male
Species :	Red-Tailed Hawk ( <i>Buteo jamaicensis</i> )	Age :	SY - Second Year
		Weight :	747 g
Date Received :	2019-01-23		
Date Found :	2019-01-18		

#### Necropsy

Wing chord: 340 mm. Breast muscle: 69 g. Fair flesh, fat present. Eyes missing, carcass otherwise intact. Blood in mouth. Extensive subcutaneous hemorrhage over right leg, several small holes in skin on right thigh with associated lacerations of underlying muscle (possibly from talons). Small area of subcutaneous hemorrhage cranial to left scapula. Heart devoid of blood, cardiac fat present. Lungs unremarkable. Clotted blood in thoracoabdominal cavity. Liver slightly pale. Kidneys unremarkable. Gallbladder distended with bile. Stomach empty except trace of dark green fluid. Intestinal contents are dark green.

#### Toxicology

Submitted: Liver

Requested: Anticoagulant rodenticide screen

**Anticoagulant Rodenticide Screen:**

Liver- Difethialone, concentration: 783 ng/g  
Brodifacoum, concentration: 57 ng/g

Comments: Bromadiolone and diphacinone were detected below the limit of quantitation. This method was designed for canines and has not been validated for use in birds of prey. This screen includes brodifacoum, bromadiolone, chlorophacinone, difethialone, diphacinone, and warfarin at a limit of quantitation of 30 ng/g.

**Diagnosis**

Toxin: Anticoagulant; possible talon trauma

---

**Laboratory Results For Specimen Code NY.107393.2**

Cross Reference #:	015714-19	Sex :	Male
Species :	Red-Tailed Hawk ( <i>Buteo jamaicensis</i> )	Age :	SY - Second Year
		Weight :	989 g
Date Received :	2019-01-23		
Date Found :	2019-01-18		

**Necropsy**

Fair to good flesh (breast: 112 g). Good fat reserves. Heart, liver, and kidneys are all pale. Subcutaneous hemorrhage over lower right tibiotarsus. Stomach empty - stained with blood/bile. Gallbladder full, bile in intestines.

**Toxicology**

Submitted: Liver

Requested: Anticoagulant rodenticide screen

**Anticoagulant Rodenticide Screen:**

Liver- Difethialone, concentration: 688 ng/g

Comments: Bromadiolone and diphacinone were detected at levels below the limit of quantitation. These findings support your diagnosis of anticoagulant rodenticide toxicosis. This method was designed for canines and has not been validated for use in birds of prey. This screen includes brodifacoum, bromadiolone, chlorophacinone, difethialone, diphacinone, and warfarin at a limit of quantitation of 30 ng/g.

**Diagnosis**

Toxin: Anticoagulant;

---

Pathologist(s)	Kevin Hynes
Assistant(s)	Ashley Ableman

---

**Confidentiality Notice**

This communication is intended for the recipient only and may contain legally privileged or confidential information. Any unauthorized use, disclosure, distribution, or copy is strictly prohibited. Please notify the CWHC if you have arrived at this information by mistake. Thank you.